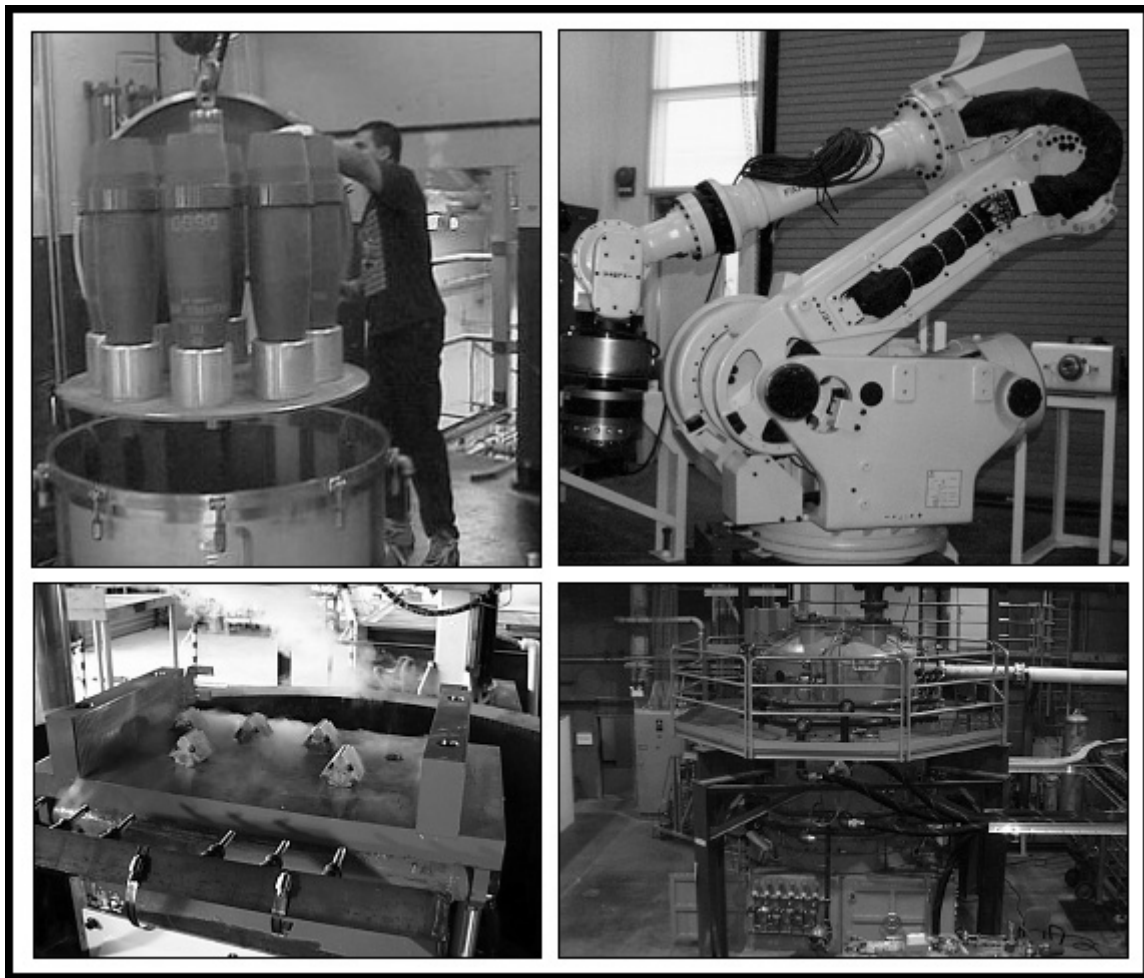




2003 Global Demilitarization Symposium & Exhibition



Event #3580
John Ascuaga's Nugget
Sparks, Nevada
May 19-22, 2003

2003 Global Demilitarization Symposium & Exhibition, Event #3580

AGENDA

Welcome to the 11th Annual Global Demilitarization Symposium and Exhibition, sponsored by the Demilitarization Committee of The National Defense Industrial Association, and the Joint Ordnance Commanders Group. This Symposium continues to support the Department of Defense in numerous efforts directed at reducing the stockpile of excess and obsolete strategic, tactical and conventional munitions. The agenda will focus on global challenges and successes experienced in the disposition of energetic materials. Topics include ongoing disposal, recycling and reuse programs, research and development efforts, transitioning technologies, and the latest policy issues affecting this business.

Monday, May 19, 2003

5:00 p.m. - 7:00p.m **Registration and Light Reception in the Exhibit Hall**

Tuesday, May 20, 2003

7:00 a.m. **Late Registration & Continental Breakfast**

8:00 a.m. **Call to Order**

Mr. James Q. Wheeler, Chairman, Joint Ordnance Commanders Group (JOCG)
Demilitarization/Disposal Subgroup, G3/G7-Deputy for Operations, Joint Munitions Command (JMC)

8:15 a.m. **Welcome**

BG William R. Holmes (Ret), Day and Zimmerman, Inc.

8:45 a.m. **Keynote Address**

MG Wade H. McManus, Jr. Commanding General, Joint Munitions Command

9:15 a.m. **PEO Ammo**

BG Paul S. Izzo, PEO Ammo

9:35 a.m. **PM Demil**

LTC Kevin N. Jennings, Product Manager Demilitarization

9:55 a.m. **Break - Exhibits Open for Review**

10:45 a.m. **OSD Perspective**

Mr. Anthony J. Melita, Land Warfare and Munitions, Office of the Secretary of Defense

11:15 a.m. **JOCG Demil Subgroup Update**

Mr. James Q. Wheeler, Chairman, JOCG Demilitarization/Disposal Subgroup

11:45 a.m. **JOCG/NDIA JOHN L. BYRD, JR. MEMORIAL AWARD FOR EXCELLENCE IN MUNITIONS DEMILITARIZATION**

Presented by Mr. James Q. Wheeler, Chairman, JOCG Demilitarization/Disposal Subgroup

12:00 noon **Lunch-Exhibit Hall**

1:00 p.m. **Joint Munitions Command Demilitarization Program Overview**

Mr. Louis D. Ligeno, HQ, Joint Munitions Command (JMC)

1:10 p.m. **Joint Munitions Command Commercial Demil Program Overview**

Mr. Richard L. Fuller, Jr., HQ, Joint Munitions Command (JMC)

1:20 p.m. **Missile Demil Integrated Program Plan**

Ms. Lisha Adams, PEO Tactical Missiles

1:40 p.m. **Demilitarization Execution Panel**

Panel Members – TBA

3:00 p.m. **Break-Exhibit Hall**

- 3:30 p.m. DoD Munitions Demilitarization, Importance on Homeland Security**
MG Robert A. Goodbary (Ret), Director of Military Relations, Oklahoma State University
- 4:00 p.m. Industry Panel**
Panel Members - TBA
- 5:00 p.m. Demilitarization Developments in NATO**
Mr. Scott Willason, NATO Maintenance & Supply Agency
- 5:30 p.m. Adjourn**
- 5:30 p.m. Reception - Exhibit Hall**
7:00 p.m.

Wednesday, May 21, 2003

- 7:00 a.m. Late Registration & Continental Breakfast**
- 8:00 a.m. Call to Order**
Mr. James Q. Wheeler, Chairman, JOCG Munitions Demilitarization/Disposal Subgroup
- 8:10 a.m. Major Impacts to the Global Demil Industry**
Mr. Frank Winkler, EBV GmbH
- 8:35 a.m. MIDAS Update**
Mr. Tyrone Nordquist, Defense Ammunition Center
- 9:00 a.m. Break - Exhibit Hall**

SESSION I-A

Session Chair, Mr. Dan Burch, NSWC Crane

- 10:00 a.m. MLRS Pilot Demonstration Plan.**
Mr. Bill Olszewski, QuantiTech
- 10:20 a.m. General Dynamics-OTS: ID/IQ Status Report.** Mr. James Kilpatrick, General Dynamics Ordnance and Tactical Systems
- 10:40 a.m. PB/Nammo Demil ID/IQ Status Report.**
COL (Ret) David Emling, PB/Nammo Demil, LLC
- 11:00 a.m. First Ever GSA Approved Contract for Recycling Military Batteries.** Mr. David Miller, Toxco Inc.
- 11:20 a.m. Evolution and Status Update of the Donovan Blast Chamber for Controlled Detonation of Conventional Munitions and Energetics.** Mr. Ben Redmond, CH2M Hill
- 11:40 a.m. The Status of Contained Detonation Chamber Technology.**
Mr. Keith Sims, NSWC Crane
- 12:00 noon Lunch - Exhibit Hall**

SESSION I-B

Session Chair, Mr. John Sanchez, Los Alamos National Laboratory

- 10:00 a.m. Albanian Experience on Demilitarization of the Stockpile Ammunition.** Mr. Ismet Drenova, Institute of Studies and Projecting for Defense, (MOD) Tirana-Albania
- 10:20 a.m. Trinitrotolunene: A Destructive Substance or Creative Molecule?** Professor Alex Rusanov, A.N Nesmeyanov Institute of Organoelement Compounds RAS, Moscow, Russia
- 10:40 a.m. The Complex Utilization of the Conventional Ammunition.** Dr. Vladimir N. Postnov, USSR JSC, "Forpost-Convetsia"
- 11:00 a.m. Ukraine Propellant Disposition Facility for SS-24 Solid Rocket Motors.** Mr. William Miles, Thiokol Technologies International
- 11:20 a.m. Neutralization of Rocket Propellant Installation at Surface to Air Missile Site in Republic of Moldova.** Mr. Reese Nielsen, ATK Thiokol Propulsion
- 11:40 a.m. Low Cost, High Volume Commercial Blasting Agent from Recycled Propellants.** Mr. Mark Lillie, TPL, Inc.
- 12:00 noon Lunch - Exhibit Hall**

SESSION II-A

Session Chair, Mr. Richard Fuller, HQ, Joint Munitions Command

- 1:00 p.m. Destruction of Chemical Munitions Using the Donovan Blast Chamber.** Dr. Mark Morris, DeMil International, CH2M Hill
- 1:20 p.m. Confined Burn Facility (CBF) Chamber Combustion Efficiency Study Status.** Mr. Timothy Brennan, NSWC Indian Head
- 1:40 p.m. Detonation Chamber Design.** Dr. Hubert Porter, Porter Systems, Inc.
- 2:00 p.m. Hydrolysis of CADs/PADs.** Mr. Ron Snyder, Tooele Army Depot
- 2:20 p.m. Passive IR Standoff Monitoring of Effluents Relevant to OB/OD.** Mr. Charles Stevens, Lawrence Livermore National Laboratory
- 2:40 p.m. Startup Operation of Chemical Conversion Process for Conversion of Explosive D to Picric Acid.** Dr. Duane Goetsch, Gradient Technology
- 3:00 p.m. Break-Exhibit Hall**

SESSION III-A

Session Chair, Ms. Mary Clare Stoddard, Sandia National Laboratory

- 3:30 p.m. Green Munitions Analytical Compliance System (G-MACS) Implementation.** Dr. George Thompson, Chemical Compliance Systems, Inc.
- 3:50 p.m. Interaction of Porphyrins with TNT: Basis of Photocatalytic Modification.** Dr. James Harmon, Oklahoma State University
- 4:10 p.m. Photocatalytic Degradation of TNT by Metallic Porphyrins.** Dr. Thomas C. Collins, Oklahoma State University
- 4:30 p.m. Protocol for Determining Emission Factors from Open Detonation of Munitions and the Application to TNT based Explosives.** Dr. Eric Erickson, Naval Air Weapons Division, China Lake
- 4:50 p.m. Optimization of the Perchlorate Biodegradation Prototype at Thiokol Propulsion (ATK).** Mr. Edward Coppola, Applied Research Associates, Inc.
- 5:10 p.m. Actodemil® Technology for Safe Neutralization of Ordnance and Ordnance Scrap.** Mr. Nand Kaushik, ARCTECH, Inc.
- 5:30 p.m. Adjourn**

SESSION II-B

Session Chair, Mr. Tyrone Nordquist, Defense Ammunition Center

- 1:00 p.m. Characterization of Explosives and Propellants Using Near Infrared Spectroscopy.** Dr. Thomas DeAngelis, GEO-CENTERS, Inc.
- 1:20 p.m. Moisture Analysis of Reclaimed TNT by NIR Analysis.** Ms. Karen Shaw, GEO-CENTERS, Inc.
- 1:40 p.m. Stabilizer Testing on Military Propellants** Mr. Craig Patterson, HQ, JMC
- 2:00 p.m. Successful Integration of Risk Assessment into the Design of a High Pressure Slurry Explosives Pumping Operation.** Mr. Robert Ford, Safety Management Services, Inc.
- 2:20 p.m. Destruction of Recovered Gun Propellant Wastes Using Hydrolysis.** Mr. Harley Heaton, UXB International, Inc.
- 2:40 p.m. Cryofracture Demilitarization Program.** Ms. Florence Elie, U.S. Army ARDEC
- 3:00 p.m. Break-Exhibit Hall**

SESSION III-B

Session Chair, Mr. Raymond Goldstein, USA TACOM-ARDEC

- 3:30 p.m. Requalification of Demilitarized HMX for Use in DOD and DOE Applications.** Dr. Randall Johnson, TPL, Inc.
- 3:50 p.m. Process Development for the Conversion of DOD Reclaimed Energetic Materials to Higher Value Products.** Dr. Alexander Mitchell, Lawrence Livermore National Laboratory
- 4:10 p.m. Ultra-Short Pulse Lasers: An Emerging New Tool to Safely Demil High Explosives, Sub-Munitions, and Propellants While Enhancing Environmentally Safe Resource Recovery and Reuse (R3) of High Explosives.** Mr. Frank Roeske, Lawrence Livermore National Laboratory
- 4:30 p.m. Waste Treatment and Demilitarization with Molten Salt Oxidation.** Dr. Peter Hsu, Lawrence Livermore National Laboratory
- 4:50 p.m. Destruction of Energetic Material Using Molten Salt Oxidation.** Mr. Jim Griffenhagen, NSWC, Indian Head
- 5:10 p.m. Magnesium Reclamation and Reuse.** Mr. Richard Ames, ARDEC
- 5:30 p.m. Adjourn**

7:00 a.m. Continental Breakfast

SESSION IV-A

Session Chair, Dr. Bruce Watkins, Lawrence Livermore National Laboratory

- 8:00 a.m. Use of Surface Acoustic Wave Technology to Non-Intrusively Identify Liquid Chemical Warfare Agents or Radioactive Solids.** Mr. Curt Marts, Detection & Defense Security, Ltd
- 8:20 a.m. Development of a Plasma Ordnance Demilitarization System (PODS) for Pyrotechnic Munitions.** Mr. Gary Mescavage, U.S. Army TACOM-ARDEC
- 8:40 a.m. Testing and Optimization of a Mobile Plasma Treatment System (MPTS).** Mr. Francis Sullivan, U.S. Army TACOM - ARDEC
- 9:00 a.m. Development of an Internet-based Joint Services Design for Demil Handbook.** Mr. Jack Johnson, NSWC, Indian Head
- 9:30 Break**

SESSION V-A

Session Chair, Dr. Solim Kwak, Defense Ammunition Center

- 10:00 a.m. Cross Validation of ADORA Using NTS Detonation Data.** Dr. Venkat Devarakonda, BlazeTech Corp
- 10:20 a.m. Effect of Tactical Munition Demil on Warfighting Capability.** Mr. J. Ross Green, Altarum Institute
- 10:40 a.m. Rocket Motor Exhaust Scrubber Technology Demonstration.** Mr. Michael Lateulere, NSWC Indian Head
- 11:00 a.m. Thermal Laser Cutting of High-Explosives: Experiments and Theory.** Mr. John Sanchez, Los Alamos National Laboratory
- 11:20 a.m. Pollution Free Processing of Energetic Materials.** Mr. Brian Butters, Purifics Environmental Technologies Inc. Canada
- 11:40 a.m. Field Measurements of Emissions Produced during Experimental Open Detonations of Munitions.** Dr. John Stephens, Los Alamos National Laboratory
- 12:00 noon Lunch**

SESSION IV-B

Session Chair, Mr. Stewart Larsen, ATK Thiokol Propulsion

- 8:00 a.m. Disposal of APM by Incineration and Reduction of Pollutant Emission.** Dr. Renato Bonora, University of Padua, Italy
- 8:20 a.m. Demilitarization of 3"/50 caliber Mk29 Projectiles.** Mr. Paul Miller, Gradient Technology
- 8:40 a.m. Further Development of a High-Pressure Abrasive Waterjet Cutting System for Sectioning Munitions.** Dr. David Summers, University of Missouri-Rolla
- 9:00 a.m. Developing Flashless Small Arms Ammunition from Demil Artillery Propellant.** Mr. Rick Snow, TPL, Inc.
- 9:30 Break**

SESSION V-B

Session Chair, Mr. Curtis Anderson, USA TACOM-ARDEC

- 10:00 a.m. A MEMS-based IR Spectrometer for Standoff Monitoring of OB/OD Events.** Dr. Scott Bisson, Sandia National Laboratories
- 10:20 a.m. A Novel Technology for Removing Heavy Metals from Aqueous Waste Streams.** Dr. Edgar Smith, US Army Engineer Research and Development Center
- 10:40 a.m. Detecting Residual Energetic Material on Demilitarized Scrap Using a Laser-Based Monitor.** Dr. Shane Sickafoose, Sandia National Laboratories
- 11:00 a.m. Technology Development, Demilitarization Machinery, Lightweight Ordnance & Armaments Demilitarization System (LOADS).** Mr. John Stine, UXB, International, Inc.
- 11:20 a.m. APE 1526 Metal Inclusion Monitoring System.** Mr. Jerry Miller, Tooele Army Depot
- 11:40 a.m. Update on Hydrothermal Oxidation Activities at General Atomic.** Mr. Jim Elliott, General Atomics
- 12:00 noon Lunch**

SESSION VI-A

Session Chair, Dr. Jeff Riggs, Defense Group, Inc.

- 1:00 p.m. Bacterial Enzymes – Potential Applications for Demilitarization and Personnel Decontamination Against Neurotoxic G and V-type CW Agents.** Dr. Vipin K. Rastogi, U.S. Army-ECBC, APG
- 1:20 p.m. Metals Investigation of a 155mm HE M107 Casing Fragment Produced During Open Detonation.** Ms. Katie Wells, NAWC China Lake, Weapons Division
- 1:40 p.m. Comparison of Open Detonation Emission Factor Data from Small and Large Scale Tests.** Ms. Kristin Jackson, NAWC China Lake, Weapons Division
- 2:00 p.m. CBU Demil- Experience and Process Developments.** Mr. Edvard Herbst, Nammo Buck
- 2:20 p.m. Nammo NAD Underground Detonation-The Environmental and Safe Process.** Mr. Arril Skirstad, NAD
- 2:40 p.m. Overview of Robotic Programs for ADAM ICM and Rocket Assisted Projectile Disassembly Workcells.** Mr. Walter Wapman, Sandia National Laboratories
- 3:00 p.m. Break**

SESSION VI-B

Session Chair, Dr. Jerry Robinson, Sandia National Laboratories

- 1:00 p.m. General Atomics' Total Solution for Assembled Chemical Weapons at Blue Grass Kentucky.** Mr. Michael Spritzer, General Atomics
- 1:20 p.m. Advanced Environmental Technology Opens New Waste Disposal Facility at Iowa Army Ammunition Plant.** Mr. Ron Durbin, Advanced Environmental Technology, IAAP
- 1:40 p.m. Lessons Learned from Explosive Waste Incineration.** Mr. Ralph Hayes, El Dorado Engineering, Inc.
- 2:00 p.m. UXO Problems Solved by GSA Schedule Vendors.** Mr. Dennis Blood, General Services Administration/FSS
- 2:20 p.m. Demilitarization Coding Management Office Influencing DoD Demilitarization Policy Issues.** Mr. Doug Tuttle, Defense Logistics Information Service
- 2:40 p.m. Helping the Fleet Customer While Implementing the Military Munitions Rule for Navy Cartridge/Propellant Actuated Devices (CAD/PAD) Via a Virtual Fleet Support System.** Mr. Joseph Schuppel, NSWC Indian Head
- 3:00 p.m. Break**

Session VII-A

Session Chair, Mr. Eddie Ansell, Defense Ammunition Center

- 3:40 p.m. Emissions from the Detonation of Explosive Contaminated Wastes.** Ms. Therese Atienza Moore, NAWC China Lake
- 4:00 p.m. The Deposition of Dense Aluminum Oxide Coatings using Physical Vapor Deposition.** Dr. Eric Bixon, U.S. Army TACOM-ARDEC
- 4:20 p.m. Dual Use Detector Technology for Detecting Chemical Agents, Nuclear Weapon Grade Elements, and Radioactive Materials.** Mr. Curt Marts, Detection & Defense Security, Ltd.
- 4:40 p.m. HMX Recovery Scale-Up.** Mr. Reese Nielsen, ATK Thiokol Propulsion
- 5:00 p.m. Closing Remarks**
- 5:20 p.m. Adjourn**

Session VII-B

Session Chair, Mr. Walter Wapman, Sandia National Laboratories

- 3:40 p.m. Advanced Fire Protection Deluge System (AFPDS) (Cutting Edge Technology & Transition to Private Industry).** Mr. Robert Loyd, US Army Joint Munitions Command
- 4:00 p.m. Pressurized Water Washout of Mustard-Filled Chemical Munitions.** Mr. Joseph Mashinski, Aberdeen Proving Ground
- 4:20 p.m. Army EQT UXO Screening, Detection, and Discrimination Program.** Mr. Dennis Teefy, U.S. Army Aberdeen Test Center
- 4:40 p.m. Recovery and Reutilization of TNT in Military Munitions and Supplementary Charges in Large Caliber Ammunition.** Ms. Stacey Yauch, U.S. Army TACOM - ARDEC
- 5:00 p.m. Closing Remarks**
- 5:20 p.m. Adjourn**

General Information

REGISTRATION: Payment should be made at the time of registration. To pay by check, complete the attached registration form and mail with your fee, payable to:

Event #3580
National Defense Industrial Association
2111 Wilson Boulevard, Suite 400
Arlington, VA 22201-3061

-OR-

you may fax your registration form with your credit card number (Visa, MasterCard, American Express, Diner's Club), name, card expiration date and signature to NDIA at (703) 522-4656.

REGISTRATION FEES: Registration fees for the symposium (as shown on the registration form) are as follows:

	Early (Before 3/31/03)	Regular (3/31 - 5/9/03)	Late (On/After 5/10/03)
Industry NDIA Member	\$655	\$720	\$790
Industry Non-NDIA Member**	\$695	\$760	\$830
Gov't/Allied Gov't/Academia	\$425	\$465	\$510
Allied Industry Non-NDIA Member**	\$700	\$765	\$835
Speakers (1per presentation)	\$345	\$375	\$410

Fees include continental breakfasts, receptions, lunches, coffee/soda breaks and other logistical expenses.

**The Non-Member fees include a non-refundable NDIA membership fee.

FOREIGN PAYMENT: NDIA does not accept purchase orders from foreign governments or industry and will not invoice them for payment. Fees may be paid by a credit card, check drawn from U.S. banks in U.S. dollars or bank transfers. Please call NDIA at (703) 522-1820 and refer to event #3580 for additional information.

ON-LINE REGISTRATION: You may register for this event and pay by credit card online at www.ndia.org/events. Please SUBMIT and then CONFIRM your entry on-line and bring a copy of the confirmation screen with you to the conference.

REFUNDS: Registrants who cannot attend the Global Demilitarization Symposium and Exhibition must provide written notification to NDIA no later than May 10, 2003 to receive a refund. The refund of the registration fee, less a \$75 cancellation fee, will be processed at the conclusion of the meeting. No refunds will be made for cancellations received after May 10, 2003; however substitutions are welcome.

CONFIRMATIONS: You should receive a confirmation in the mail approximately 2 weeks after you register for the conference. If you do NOT receive a confirmation, please call NDIA at 703-522-1820 and refer to event # 3580.

ATTENDANCE ROSTER: An attendance roster will be distributed at the conference. Your registration form and payment must be received by May 9, 2003 to be included in this roster. An updated roster will be included with symposium proceedings.

IDENTIFICATION BADGES: Each registrant will be issued an identification badge, which must be worn at all symposium functions.

LODGING: A block of rooms has been reserved at:

John Ascuaga's Nugget
1100 Nugget Avenue
Sparks, Nevada 89432-0797
1-800-843-2427
1-800-648-1177 (Room Reservations Only)

ROOM RATES:

INDUSTRY: \$89/night

GOVERNMENT: Current federal government per diem rate for Sparks Nevada in May 2003 (currently \$55/single)-- available only to U.S. active duty military & civilian government employees; **retired personnel do not qualify for this rate.**

To ensure availability of rooms at the NDIA group rate, we urge you to make your reservations early. Rooms at the group rate will not be held after after April 19, 2003.

Be sure to mention the *NDIA Global Demilitarization Symposium and Exhibition* when making reservations.

DIRECTIONS FROM RENO/LAKE TAHOE AIRPORT: Travel North on the 395 into Reno, head east on Highway 80 towards Sparks. Take the Rock Blvd./Nugget Avenue (exit 17) exit, stay right (Nugget Ave.) and follow the signs.

AIRPORT SHUTTLE: There is a complimentary shuttle. For time schedule, please contact the hotel directly.

ATTIRE: The appropriate dress for this event is Class B uniforms (business casual for civilians).

SPECIAL NEEDS: NDIA supports the Americans With Disabilities Act of 1990. Attendees with special needs may call (703) 522-1820 (refer to Event #3580) prior to May 1, 2003.

INQUIRIES: For further information concerning this symposium, contact NDIA Associate Director Christina Buck at 703-247-9478 and refer to event # 3580.

EXHIBITION: Limited booth space is still available for the 2003 Global Demilitarization Exhibition. Please contact Tim Becker (703) 247-2573 email: tbecker@ndia.org for more information about exhibiting at this event.

SPONSORSHIP OPPORTUNITIES: Maximize your group's exposure at this symposium by sponsoring a breakfast or coffee break. Contact Dick Riegel at (703) 247-2593 or rriegel@ndia.org about special sponsorship opportunities.

PROCEEDINGS: Symposium proceedings will be distributed on CD-Rom to conference attendees through the Defense Ammunition Center approximately three to four weeks after this event.

DoD Standards Clearance

The Department of Defense finds this event meets the minimum regulatory standards for attendance by DoD employees. This finding does not constitute a blanket approval or endorsement for attendance. Individual DoD component commands or organizations are responsible for approving attendance of its DoD members.

Exhibit contract

Floor Plan



**2003 Global Demilitarization
Symposium & Exhibition Event # 3580
May 19-22, 2003, Sparks, NV**

3 ways to register!

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Speakers (1per presentation)	<input type="checkbox"/> \$345	<input type="checkbox"/> \$375	<input type="checkbox"/> \$410

A \$75 cancellation fee will be applied to cancellations received between March 31, 2003 and May 9, 2003. NO REFUNDS FOR CANCELLATIONS RECEIVED ON/ AFTER May 10, 2003. SUBSTITUTIONS ARE WELCOME! ALL cancellations and substitutions must be done in writing! All substitutions must be submitted to Christina Buck by close of business on May 12, 2003.

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